

=> d his

(FILE 'HOME' ENTERED AT 13:21:31 ON 10 JUN 2006)

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L1 STRUCTURE UPLOADED

L2 STRUCTURE UPLOADED

L3 1 S L1 OR L2

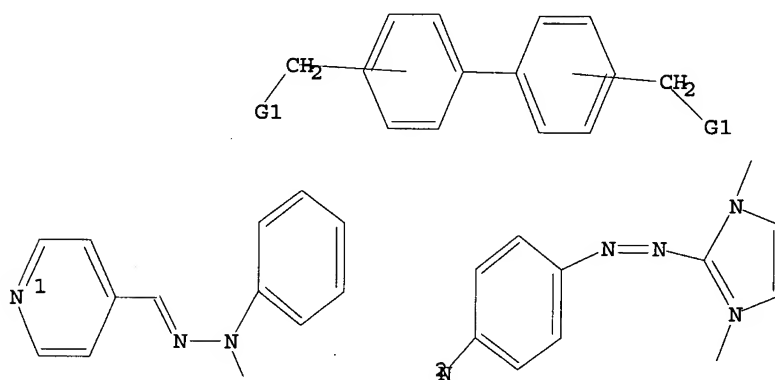
L4 22 S L3 FULL

FILE 'CAPLUS' ENTERED AT 13:22:54 ON 10 JUN 2006

L5 3 S L4

=> d que 15 stat

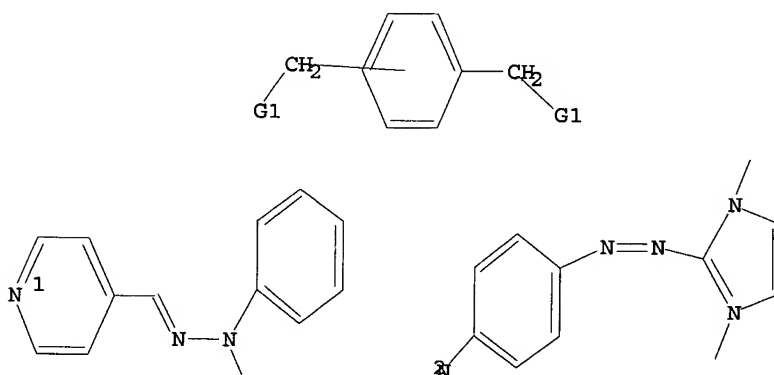
L1 STR



G1 [@1], [@2]

Structure attributes must be viewed using STN Express query preparation.

L2 STR



G1 [@1], [@2]

Structure attributes must be viewed using STN Express query preparation.

L4 22 SEA FILE=REGISTRY SSS FUL L1 OR L2

L5 3 SEA FILE=CAPLUS ABB=ON PLU=ON L4

10/801,892

Page 2

=> d 1-3 bib abs hitstr

L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2006:166129 CAPLUS  
 DN 144:263646  
 TI High-capacity optical storage media  
 IN Bacher, Jean-Pierre; Baudin, Gisele; Wendeborn, Frederique; Adam, Jean-Marie; Lehmann, Urs; Birbaum, Jean-Luc  
 PA Ciba Specialty Chemicals Holding Inc., Switz.  
 SO PCT Int. Appl., 120 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006018352	A1	20060223	WO 2005-EP53215	20050706
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	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI	EP 2004-103931	A	20040816		
	EP 2004-105558	A	20041105		
	EP 2005-100720	A	20050202		

GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The invention accordingly relates to an optical recording medium comprises a substrate, a reflecting layer and a recording layer, wherein the recording layer comprises a compound of formula I or a mesomeric or tautomeric form thereof (M1 is a metal cation in the oxidation state +3, a hydroxy or halogeno metal group wherein the metal is in the oxidation state +4, or an oxo metal group wherein the metal is in the oxidation state +5; III and IV are each independently of the other V, VI or VII; VIII is IX, X, XI, XII, XIII or XIV; XV is XVI or C2-8 heteroaryl unsubstituted or mono- or poly-substituted by R10-13; Q1 = N or CR18; Q2 = N or CR19; Q3, Q5 and Q7 are each independently of the other CR20R21, O, S or NR22; Q4 = CR16 or N and Q6 is CR17 or N; and R2 and/or R6 = O, S or NR33; R1,3-5,7-13,15-19 = H, halogen OR23, SR23, NR22R24, etc.; R14 = C1-12 alkyl, C3-12 cycloalkyl, etc.; R20,21 = C1-12 alkyl, C2-12 alkenyl, etc.; R22 = H, C1-4 alkyl, C2-4 alkenyl, etc.; R24,26,27 = H, C1-6 alkyl, C2-6 alkenyl, etc.; R33 = COR24, COR26R27, CN, etc.). Please see the disclosure for the other substituents which are less relevant. The compds. of formula I are novel and also claimed, as well as the compound of formula II, or a meso-mer or tautomer thereof (R38 = halogen, CF3, NO2, CN, COR22, COOR23, SO3R23, NCO or SCN; G1, G2, M1, R1, R2, R4, R5, R6, R8, R22 and R23 are as defined in formula I; M2m+ = cation with m pos. charges; and m = integer 1, 2 or 3). The optical recording media are remarkably suitable for DVD±R (658 nm), especially at high recording speeds.

IT 877313-08-1

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

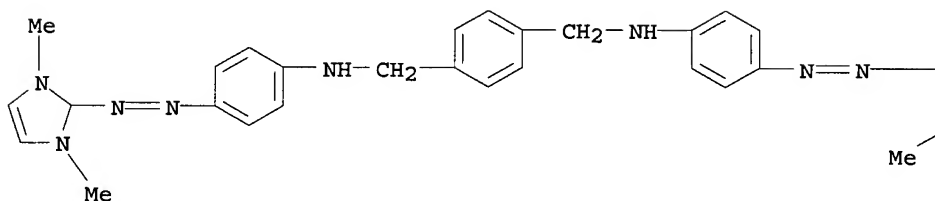
(high-capacity optical storage media containing)

RN 877313-08-1 CAPLUS  
CN INDEX NAME NOT YET ASSIGNED

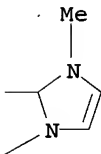
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CRN 794486-94-5  
CMF C30 H34 N10

PAGE 1-A



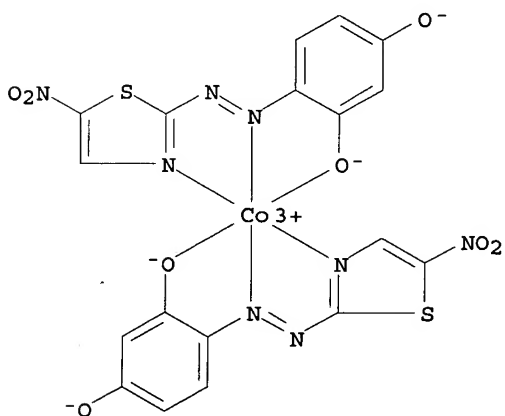
PAGE 1-B



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

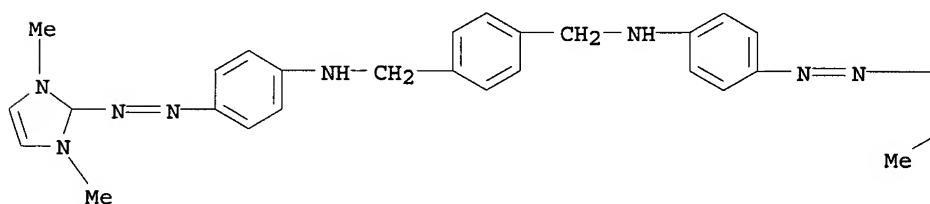
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CCI CCS



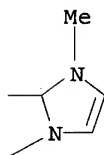
IT 877178-57-9P  
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)  
 (preparation of high-capacity optical storage media)  
 RN 877178-57-9 CAPLUS  
 CN 1H-Imidazolium, 2,2'-[1,4-phenylenebis(methyleneimino-4,1-phenyleneazo)]bis[1,3-dimethyl-, bis(methyl sulfate) (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 794486-94-5  
 CMF C30 H34 N10

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PAGE 1-B



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2  
 CRN 21228-90-0  
 CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

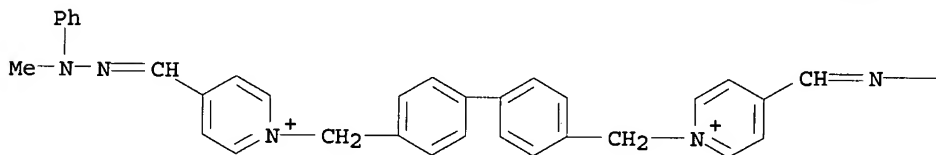
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:441245 CAPLUS  
 DN 144:234598  
 TI Cationic dimeric dyes  
 AU Anon.  
 CS USA  
 SO IP.com Journal (2004), 4(10), 28 (No. IPCOM000031281D), 21 Sep 2004  
 CODEN: IJPOBX; ISSN: 1533-0001  
 PB IP.com, Inc.  
 DT Journal; Patent  
 LA English  

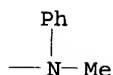
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IP 31281D		20040921		
IP 2004-31281D		20040921		

 PI IP 31281D  
 PRAI IP 2004-31281D 20040921  
 AB Bispyridinium conjugated azomethine dyes for hair are prepared and formulations containing them are described. As an example, N-methyl-N-phenylhydrazine is condensed with 4-pyridinecarboxaldehyde and the product is then treated with 4,4'-bis(chloromethyl)biphenyl to provide a brown dye.  
 IT 765918-45-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (brown dye; preparation of cationic dimeric dyes for hair)  
 RN 765918-45-4 CAPLUS  
 CN Pyridinium, 1,1'-[[1,1'-biphenyl]-4,4'-diylbis(methylene)]bis[4-(methylphenylhydrazono)methyl]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A

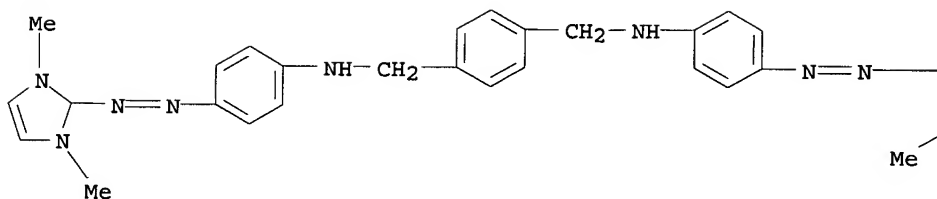
● 2 Cl<sup>-</sup>

PAGE 1-B

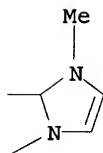


IT 765918-49-8P 765918-54-5P 765918-58-9P  
 765918-60-3P 876109-18-1P 876109-20-5P  
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (dye; preparation of cationic dimeric dyes for hair)  
 RN 765918-49-8 CAPLUS  
 CN 1H-Imidazolium, 2,2'-[1,4-phenylenebis(methyleneimino-4,1-phenyleneazo)]bis[1,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A

● 2 Cl<sup>-</sup>

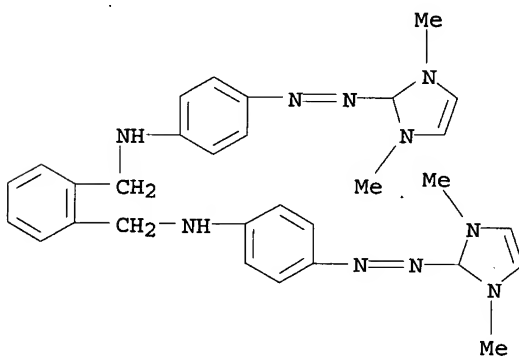
PAGE 1-B



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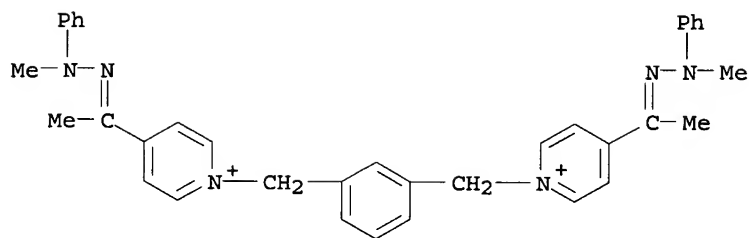
CN 1H-Imidazolium, 2,2'-[1,2-phenylenebis(methyleneimino-4,1-phenyleneazo)]bis[1,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl<sup>-</sup>

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

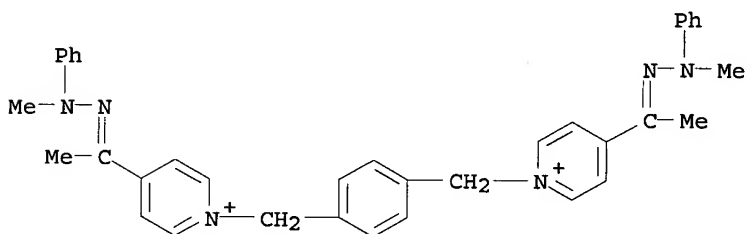
RN 765918-58-9 CAPLUS

CN Pyridinium, 1,1'-[1,3-phenylenebis(methylene)]bis[4-[1-(methylphenylhydrazono)ethyl]-, dibromide (9CI) (CA INDEX NAME)



● 2 Br<sup>-</sup>

RN 765918-60-3 CAPLUS  
 CN Pyridinium, 1,1'-[1,4-phenylenebis(methylene)]bis[4-[1-(methylphenylhydrazono)ethyl]-, dichloride (9CI) (CA INDEX NAME)



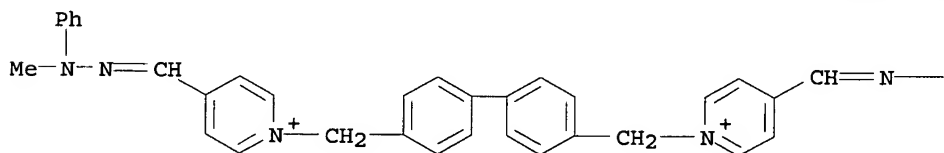
● 2 Cl<sup>-</sup>

RN 876109-18-1 CAPLUS  
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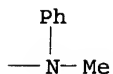
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 CMF C40 H38 N6

PAGE 1-A



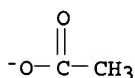


PAGE 1-B



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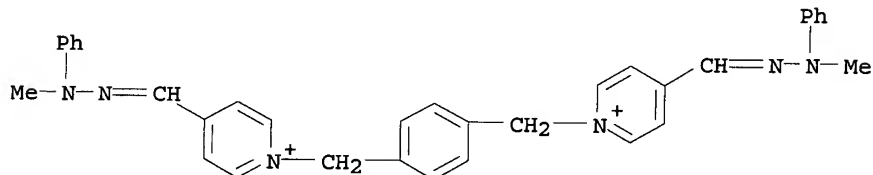
CRN 71-50-1  
CMF C2 H3 O2



RN 876109-20-5 CAPLUS  
CN Pyridinium, 1,1'-[1,4-phenylenebis(methylene)]bis[4-  
[(methylphenylhydrazono)methyl]-, diacetate (9CI) (CA INDEX NAME)

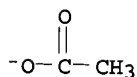
CM 1

CRN 794486-93-4  
CMF C34 H34 N6

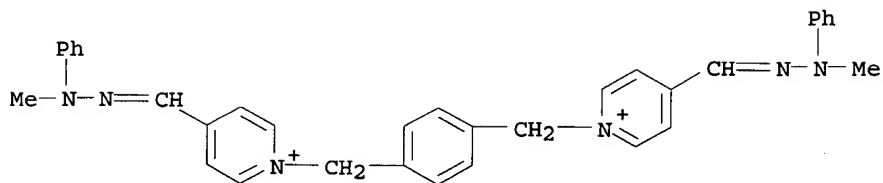


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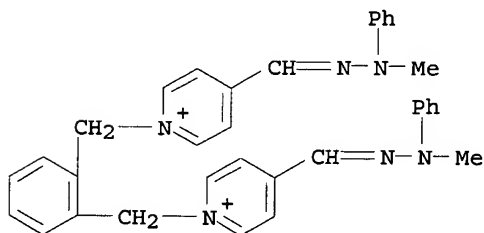
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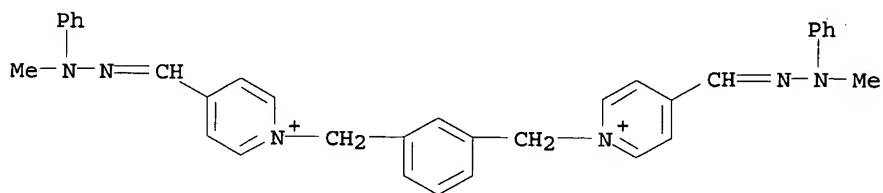
IT 765918-47-6P 765918-52-3P 765918-56-7P  
765918-62-5P  
RL: SPN (Synthetic preparation); TEM (Technical or engineered material  
use); PREP (Preparation); USES (Uses)  
(orange dye; preparation of cationic dimeric dyes for hair)  
RN 765918-47-6 CAPLUS  
CN Pyridinium, 1,1'-[1,4-phenylenebis(methylene)]bis[4-  
[(methylphenylhydrazono)methyl]-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl<sup>-</sup>

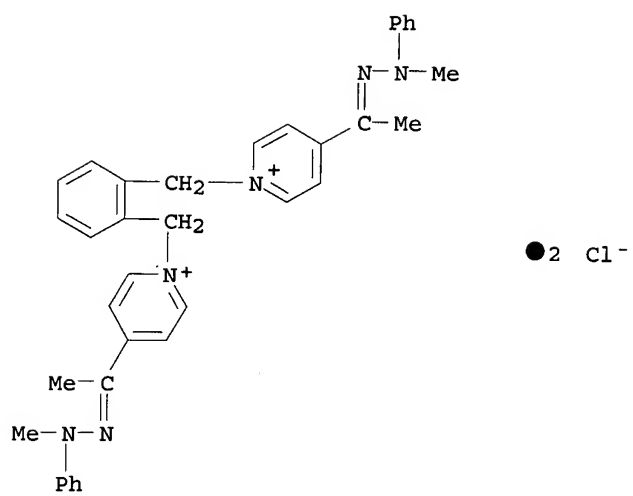
RN 765918-52-3 CAPLUS  
 CN Pyridinium, 1,1'-[1,2-phenylenebis(methylene)]bis[4-[(methylphenylhydrazone)methyl]-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl<sup>-</sup>

RN 765918-56-7 CAPLUS  
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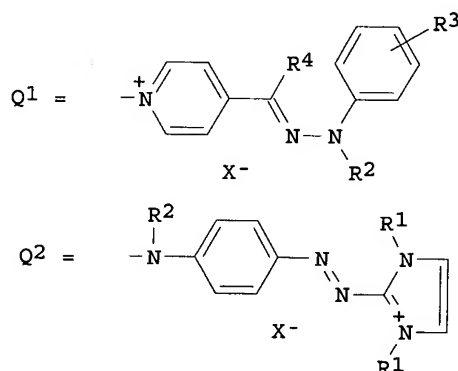
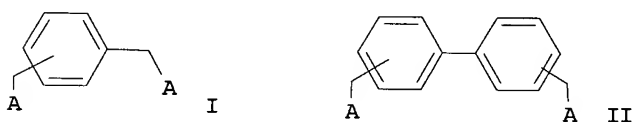
● 2 Br<sup>-</sup>

RN 765918-62-5 CAPLUS  
 CN Pyridinium, 1,1'-[1,2-phenylenebis(methylene)]bis[4-[(1-methylphenylhydrazone)ethyl]-, dichloride (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:801976 CAPLUS  
 DN 141:315835  
 TI Cationic dimeric dyes having aminoazomethine or azo groups  
 IN Eliu, Victor Paul; Frohling, Beate  
 PA Germany  
 SO U.S. Pat. Appl. Publ., 48 pp.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004187231	A1	20040930	US 2004-801892	20040316
	AU 2004222107	A1	20040930	AU 2004-222107	20040308
	WO 2004083312	A2	20040930	WO 2004-EP50268	20040308
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	CN 1761448	A	20060419	CN 2004-80007278	20040308
PRAI	EP 2003-405185	A	20030318		
	WO 2004-EP50268	A	20040308		
OS	MARPAT 141:315835				
GI					



AB The present invention relates to cationic dyes I and II, wherein A is Q1 or Q2, wherein R1 and R2 are each independently of the other unsubstituted or substituted C1-C14 alkyl or an aryl radical, R3 is hydrogen,

unsubstituted or substituted C1-C14 alkyl, unsubstituted or substituted C1-C14 alkoxy, cyano or halo, R4 is hydrogen, unsubstituted or substituted C1-C14 alkyl or an aryl radical, and X- is an anion. Further, the present invention relates to compns. thereof, especially comprising other dyes, to processes for the preparation thereof and to the use thereof in the dyeing of organic material, such as paper and human hair with shades that are fast to washing, light, shampooing, and rubbing. A typical dye was manufactured by adding 16.5 g 4-pyridinealdehyde in 15 min to H2SO4 14, water 42, and  $\alpha$ -methylphenylhydrazine 16.2 at 293K with stirring, stirring 1 h, adjusting the pH to 2.2 with aqueous NaOH, adding 2.7 g NaCl at 333K, stirring 1 h, dissolving the 39.3 g resulting hydrazone in 200 g iso-PrOH, adding 27 g 4,4'-bis(chloromethyl)biphenyl, heating to 338K, and stirring 5 h.

IT 765918-45-4P 765918-47-6P 765918-49-8P  
765918-52-3P 765918-54-5P 765918-56-7P  
765918-58-9P 765918-60-3P 765918-62-5P

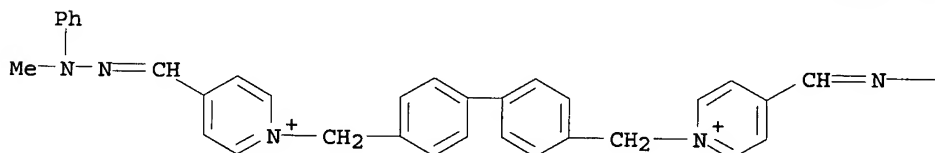
RL: COS (Cosmetic use); IMF (Industrial manufacture); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cationic dimeric dyes having aminoazomethine or azo groups for dyeing of paper and hair)

RN 765918-45-4 CAPLUS

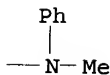
CN Pyridinium, 1,1'-[[1,1'-biphenyl]-4,4'-diylbis(methylene)]bis[4-[(methylphenylhydrazono)methyl]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A



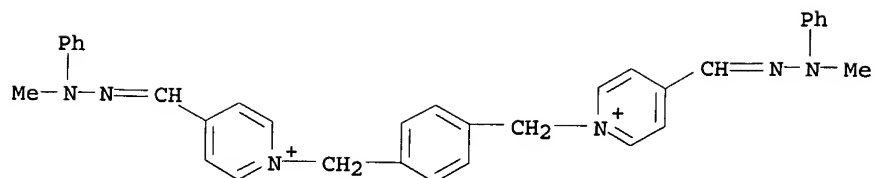
● 2 Cl<sup>-</sup>

PAGE 1-B



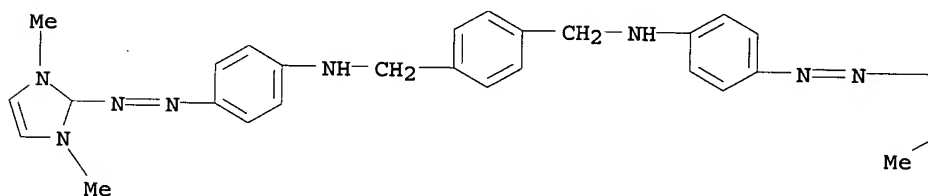
RN 765918-47-6 CAPLUS

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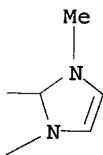
● 2 Cl<sup>-</sup>

RN 765918-49-8 CAPLUS  
 CN 1H-Imidazolium, 2,2'-[1,4-phenylenebis(methyleneimino-4,1-phenyleneazo)]bis[1,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A

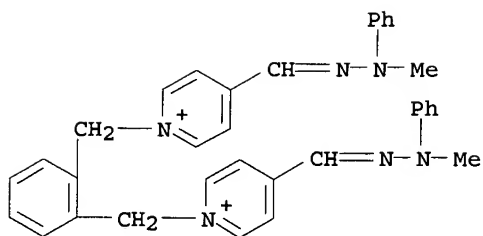
● 2 Cl<sup>-</sup>

PAGE 1-B



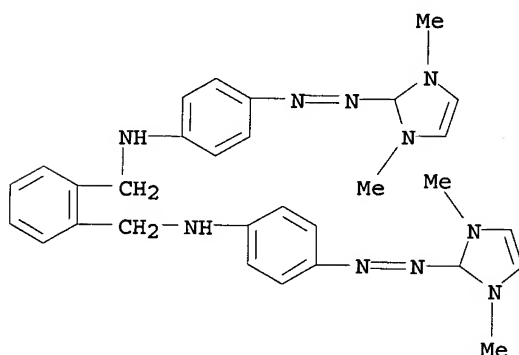
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 RN 765918-52-3 CAPLUS

CN Pyridinium, 1,1'-[1,2-phenylenebis(methylene)]bis[4-[(methylphenylhydrazono)methyl]-, dichloride (9CI) (CA INDEX NAME)



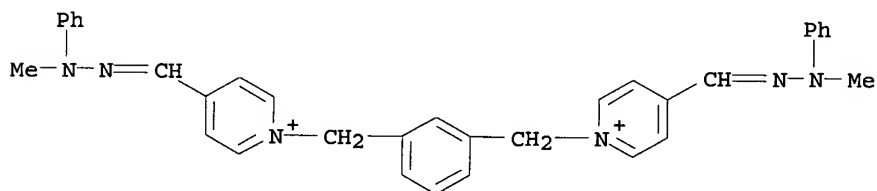
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RN 765918-54-5 CAPLUS  
 CN 1H-Imidazolium, 2,2'-[1,2-phenylenebis(methyleneimino-4,1-phenyleneazo)]bis[1,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)



● 2 Cl<sup>-</sup>

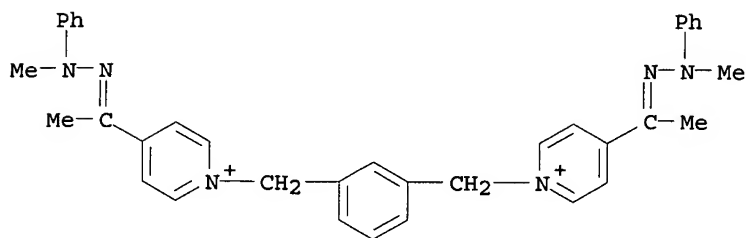
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 RN 765918-56-7 CAPLUS  
 CN Pyridinium, 1,1'-[1,3-phenylenebis(methylene)]bis[4-[(methylphenylhydrazone)methyl]-, dibromide (9CI) (CA INDEX NAME)



● 2 Br<sup>-</sup>

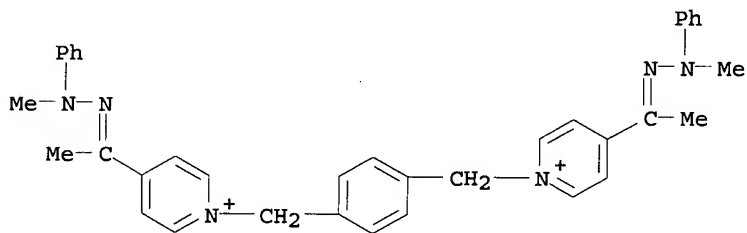
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CN Pyridinium, 1,1'-[1,3-phenylenebis(methylene)]bis[4-[1-(methylphenylhydrazono)ethyl]-, dibromide (9CI) (CA INDEX NAME)



● 2 Br<sup>-</sup>

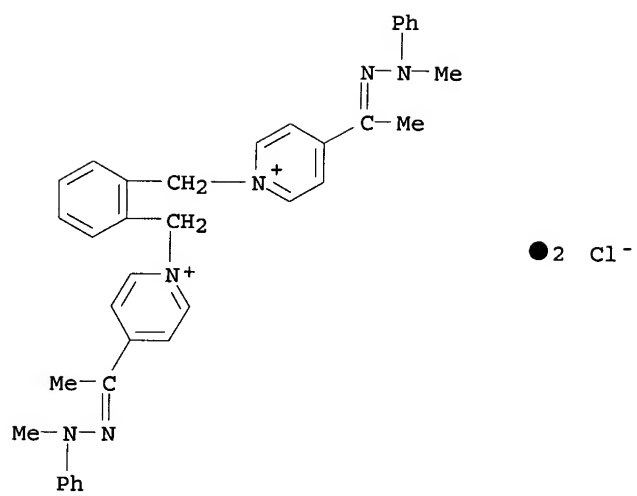
RN 765918-60-3 CAPLUS  
CN Pyridinium, 1,1'-[1,4-phenylenebis(methylene)]bis[4-[1-(methylphenylhydrazono)ethyl]-, dichloride (9CI) (CA INDEX NAME)



● 2 Cl<sup>-</sup>

RN 765918-62-5 CAPLUS  
CN Pyridinium, 1,1'-[1,2-phenylenebis(methylene)]bis[4-[1-(methylphenylhydrazono)ethyl]-, dichloride (9CI) (CA INDEX NAME)





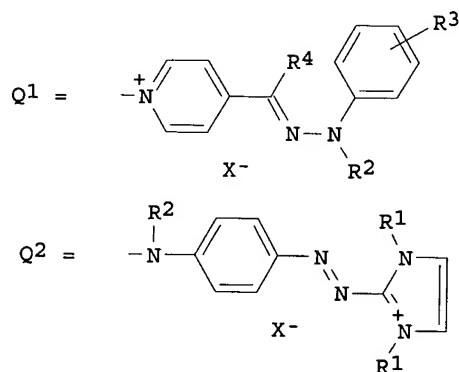
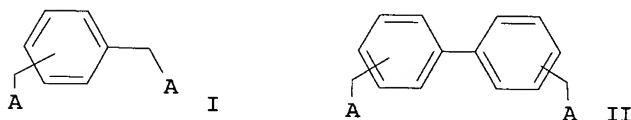
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L7	4	SEA FILE=CAPLUS ABB=ON	PLU=ON	"FROHLING BEATE"/AU
L8	28	SEA FILE=CAPLUS ABB=ON	PLU=ON	L6 OR L7
L9	11	SEA FILE=CAPLUS ABB=ON	PLU=ON	L8 AND CATIONIC
L10	1	SEA FILE=CAPLUS ABB=ON	PLU=ON	L9 AND DIMERIC

=> d bib abs

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:801976 CAPLUS  
 DN 141:315835  
 TI Cationic dimeric dyes having aminoazomethine or azo groups  
 IN Eliu, Victor Paul; Frohling, Beate  
 PA Germany  
 SO U.S. Pat. Appl. Publ., 48 pp.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004187231	A1	20040930	US 2004-801892	20040316
	AU 2004222107	A1	20040930	AU 2004-222107	20040308
	WO 2004083312	A2	20040930	WO 2004-EP50268	20040308
	W:				
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	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1622686	A2	20060208	EP 2004-718316	20040308
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
	CN 1761448	A	20060419	CN 2004-80007278	20040308
PRAI	EP 2003-405185	A	20030318		
	WO 2004-EP50268	A	20040308		
OS	MARPAT 141:315835				
GI					



AB The present invention relates to cationic dyes I and II, wherein  
 A is Q1 or Q2, wherein R1 and R2 are each independently of the other

unsubstituted or substituted C1-C14 alkyl or an aryl radical, R3 is hydrogen, unsubstituted or substituted C1-C14 alkyl, unsubstituted or substituted C1-C14 alkoxy, cyano or halo, R4 is hydrogen, unsubstituted or substituted C1-C14 alkyl or an aryl radical, and X- is an anion. Further, the present invention relates to compns. thereof, especially comprising other dyes, to processes for the preparation thereof and to the use thereof in the dyeing of organic material, such as paper and human hair with shades that are fast to washing, light, shampooing, and rubbing. A typical dye was manufactured by adding 16.5 g 4-pyridinealdehyde in 15 min to H2SO4 14, water 42, and  $\alpha$ -methylphenylhydrazine 16.2 at 293K with stirring, stirring 1 h, adjusting the pH to 2.2 with aqueous NaOH, adding 2.7 g NaCl at 333K, stirring 1 h, dissolving the 39.3 g resulting hydrazone in 200 g iso-PrOH, adding 27 g 4,4'-bis(chloromethyl)biphenyl, heating to 338K, and stirring 5 h.

=> d his full

(FILE 'HOME' ENTERED AT 13:21:31 ON 10 JUN 2006)

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FILE 'REGISTRY' ENTERED AT 13:21:39 ON 10 JUN 2006
L1      STRUCTURE UPLOADED
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L2      STRUCTURE UPLOADED
        D
L3      1 SEA SSS SAM L1 OR L2
        D SCAN
L4      22 SEA SSS FUL L1 OR L2

FILE 'CAPLUS' ENTERED AT 13:22:54 ON 10 JUN 2006
L5      3 SEA ABB=ON PLU=ON L4
        D QUE L5 STAT
        D 1-3 BIB ABS HITSTR
        E ELIU VICTOR/AU
L6      27 SEA ABB=ON PLU=ON ("ELIU VICTOR"/AU OR "ELIU VICTOR PAUL"/AU)
        E FROHLING BEATE/AU
L7      4 SEA ABB=ON PLU=ON "FROHLING BEATE"/AU
L8      28 SEA ABB=ON PLU=ON L6 OR L7
L9      11 SEA ABB=ON PLU=ON L8 AND CATIONIC
L10     1 SEA ABB=ON PLU=ON L9 AND DIMERIC
        D QUE L10 STAT
        D BIB ABS

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FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 JUN 2006 HIGHEST RN 887342-06-5

DICTIONARY FILE UPDATES: 9 JUN 2006 HIGHEST RN 887342-06-5

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
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<http://www.cas.org/ONLINE/UG/regprops.html>

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FILE LAST UPDATED: 9 Jun 2006 (20060609/ED)

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